

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Southwest				
(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA-Z056) SHELBY, (IA-Z069) POTTAWATTAMIE				
	05/01/13 17:00 CST		0	Winter Weather
	05/02/13 03:00 CST		0	
<p>A unseasonably cold upper level system brought snow, or sleet that changed to snow to much of western Iowa on May 1st into the early morning hours of May 2nd. Snow and sleet intensities were enhanced by scattered thunderstorms that moved across the area. Snowfall totals of 1 to 3 inches fell over most of the region with a swath of 3 to 5 inches reported from Pottawattamie county north through Harlan, Little Sioux and Castana with even an isolated report of around 6 inches a little east of Missouri Valley. The snow and sleet created slushy and rutted roads and winds gusting over 20 mph combined with poor visibilities in moderate snow making for a period of difficult driving conditions which caused some vehicles to slide into ditches, especially along I29 north of Council Bluffs.</p>				
FREMONT COUNTY --- 0.7 S PAYNE [40.66, -95.75]				
	05/18/13 23:42 CST		0	Thunderstorm Wind (MG 53 kt)
	05/18/13 23:42 CST		0	Source: Department of Highways
A department of roads sensor along I29 measured a thunderstorm wind gust of 61 mph.				
<p>Moderately unstable conditions developed over eastern Nebraska during the afternoon and evening of May 18th as temperatures warmed into the 80s and dew point temperatures reached the mid to upper 60s. As an upper level trough approached from the Rockies, thunderstorms developed in western Nebraska and western Kansas. These storms moved east across eastern Nebraska and western Iowa and produced isolated areas of wind damage.</p>				
MILLS COUNTY --- 2.9 SW PACIFIC CITY [41.02, -95.86]				
	05/19/13 14:33 CST		0	Thunderstorm Wind (EG 52 kt)
	05/19/13 14:33 CST		0	Source: Trained Spotter
A spotter estimated thunderstorm winds reached around 60 mph.				
HARRISON COUNTY --- DUNLAP [41.85, -95.60]				
	05/19/13 15:30 CST		0	Hail (1.00 in)
	05/19/13 15:30 CST		0	Source: Trained Spotter
Although most of the hail was pea to nickel-size, a few stones reached quarter-size.				
MONTGOMERY COUNTY --- 1.0 E VILLISCA [40.93, -94.98]				
	05/19/13 16:06 CST		0	Hail (1.00 in)
	05/19/13 16:06 CST		0	Source: Trained Spotter
PAGE COUNTY --- 2.2 WSW BINGHAM [40.72, -95.32]				
	05/19/13 16:20 CST		0	Thunderstorm Wind (EG 55 kt)
	05/19/13 16:20 CST		0	Source: Trained Spotter
Thunderstorm wind gusts estimated at over 60 mph caused extensive damage to a roof of a barn with other debris noted in the area. The wind damage was from the same storm that dropped hail at least 1 inch in diameter in the area.				
PAGE COUNTY --- 1.3 ESE SHENANDOAH [40.76, -95.35]				
	05/19/13 16:24 CST		0	Hail (1.00 in)
	05/19/13 16:24 CST		0	Source: Law Enforcement
Nickel to quarter-size hail was reported from the same super cell thunderstorm that caused wind damage in the area.				
PAGE COUNTY --- 0.7 S SHENANDOAH [40.76, -95.37]				
	05/19/13 16:27 CST		0	Hail (0.75 in)
	05/19/13 16:27 CST		0	Source: Trained Spotter
From the same storm that produced hail up to quarter-size and wind damage in the area.				
<p>As low pressure aloft deepened from western Nebraska into South Dakota, thunderstorms developed across central and eastern Nebraska during the early to mid afternoon hours. Temperatures climbed into the 70s and 80s and dew point temperatures in the 60s</p>				

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created moderately unstable conditions across the region. Several lines of severe thunderstorms moved across the area producing some wind damage along with several reports of large hail.				
MONTGOMERY COUNTY --- 1.0 E WALLIN [41.07, -95.05]				
	05/26/13 18:30 CST		0	Hail (1.25 in)
	05/26/13 18:30 CST		0	Source: Public
This was the first event of an unsettled weather pattern that set up over the central Plains for the last several days in May. Warm moist air was returning to western Iowa as a warm front moved north into the area. Temperatures climbed into the 80s and dew points increased into the 60s by late afternoon over western Iowa. This led to increasing instability, and eventually isolated thunderstorms by late afternoon along the warm front over southwest Iowa. Only isolated severe weather, in the form of large hail, fell from these thunderstorms.				
MONTGOMERY COUNTY --- 0.3 W RED OAK [41.02, -95.23], 0.9 E RED OAK [41.02, -95.21], 1.3 SE RED OAK [41.00, -95.22], 1.4 S RED OAK [41.00, -95.23], 1.0 SSW RED OAK [41.01, -95.24]				
	05/27/13 23:39 CST		0	Flash Flood (due to Heavy Rain)
	05/28/13 00:39 CST		0	Source: Emergency Manager
Heavy thunderstorm rainfall of 1 to 2 inches fell quickly across Red Oak leading to flash flooding in the city with numerous streets flooded.				
A thunderstorm complex moved out of eastern Nebraska and across southwest Iowa late in the evening on the 27th. The complex of storms brought heavy rainfall to southwest Iowa in areas where the ground was already nearly saturated. This led to isolated flash flooding.				
MONONA COUNTY --- 78.9 N TABOR [42.02, -95.95], 78.7 N TABOR [42.02, -95.95], 78.1 N TABOR [42.01, -95.96], 78.3 N TABOR [42.01, -95.96]				
	05/28/13 18:12 CST		0	Flood (due to Heavy Rain)
	05/29/13 02:33 CST		0	Source: River/Stream Gage
Heavy rainfall in late May across northwest Iowa led to significant rises on the Little Sioux River. After rising above flood stage, the river near Turin crested around 25.4 feet late in the evening of May 28th. This created only minor flooding inside the Federal Levee System with no impact to roads or structures.				
FREMONT COUNTY --- 3.9 NW PERCIVAL [40.78, -95.86], 2.7 SSW MC PAUL [40.79, -95.83], 3.3 SW PERCIVAL [40.72, -95.85], 3.5 W HAMBURG [40.59, -95.72], 5.8 SSW PAYNE [40.59, -95.78], 5.3 W PAYNE [40.68, -95.85], 4.9 WSW PERCIVAL [40.73, -95.89]				
	05/30/13 07:45 CST		0	Flood (due to Heavy Rain)
	05/31/13 09:06 CST		0	Source: River/Stream Gage
Several episodes of heavy thunderstorm rainfall across eastern Nebraska and western Iowa in late May created flooding along the Missouri River across the the lowlands of western Fremont County. The river at Nebraska City crested twice, first on the morning of the 30th at 18.00 feet, with the second crest of 18.62 feet occurring on the evening of the 30th. The flooding was minor lowland flooding.				
Several episodes of heavy-rain producing thunderstorms caused flooding along the Missouri River in southeast Nebraska and southwest Iowa, as well as the Little Sioux River in west central Iowa.				
FREMONT COUNTY --- 0.5 W FARRAGUT [40.72, -95.48], 0.5 W FARRAGUT [40.72, -95.48], 0.5 W FARRAGUT [40.72, -95.48], 0.5 W FARRAGUT [40.72, -95.48]				
	05/29/13 13:00 CST		0	Flash Flood (due to Heavy Rain)
	05/29/13 13:15 CST		0	Source: County Official
Water was reported over Manti road for about 15 minutes.				
MONTGOMERY COUNTY --- 0.9 SE RED OAK [41.01, -95.22], 1.0 ESE RED OAK [41.01, -95.21], 1.2 ESE RED OAK [41.01, -95.21], 1.0 SE RED OAK [41.01, -95.22]				
	05/29/13 14:04 CST		0	Flash Flood (due to Heavy Rain)
	05/29/13 15:04 CST		0	Source: Emergency Manager
Street flooding was one to two feet deep in places.				
MONONA COUNTY --- 0.5 E ONAWA [42.03, -96.09]				
	05/29/13 19:10 CST		0	Thunderstorm Wind (EG 60 kt)
	05/29/13 19:10 CST		0	Source: Public
The brick front of a building facet at a car dealership was blown off and fell onto a couple of automobiles.				

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A cluster of thunderstorms developed over central Nebraska and spread east into an area of strong instability and weak inhibition over western Iowa. As a low level jet increased, so did the areal coverage of thunderstorms. This cluster of storms produced isolated areas of strong winds as well as heavy rain. Some flash flooding was also reported.

MILLS COUNTY --- 0.5 E GLENWOOD [41.05, -95.76]

05/30/13 19:20 CST	0	Hail (1.00 in)
05/30/13 19:20 CST	0	Source: Law Enforcement

FREMONT COUNTY --- 3.7 W RIVERTON [40.67, -95.64]

05/30/13 19:35 CST	0	Hail (1.00 in)
05/30/13 19:35 CST	0	Source: Public

This was the final severe weather event in a series of occurrences that were associated with a seasonably deep upper level low pressure over the northern Plains. Instability increased during the afternoon along and ahead of a stationary front across eastern Nebraska from low pressure over the Dakotas. Isolated to scattered thunderstorms developed in the late afternoon and tracked across eastern Nebraska and into western Iowa during the evening hours. Although isolated reports of damaging winds were reported, most of the events were large hail, some of which were significant in eastern Nebraska.

NEBRASKA, East

(NE-Z011) KNOX, (NE-Z012) CEDAR, (NE-Z015) THURSTON, (NE-Z016) ANTELOPE, (NE-Z017) PIERCE, (NE-Z018) WAYNE, (NE-Z030) BOONE, (NE-Z031) MADISON, (NE-Z032) STANTON, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z078) SALINE

05/01/13 00:00 CST	0	Drought
05/28/13 00:00 CST	0	

Drought conditions continued improving across eastern Nebraska in May eventually ending or upgrading into the Moderate or Abnormally Dry. Widespread rainfall of 5 to 8 inches fell over a large part of eastern Nebraska during the month, in some cases at least several inches above normal.

(NE-Z012) CEDAR, (NE-Z045) WASHINGTON, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z078) SALINE

05/01/13 04:00 CST	0	Winter Weather
05/02/13 02:15 CST	0	

A unseasonably cold upper level system brought snow, or sleet that changed to snow to much of eastern Nebraska. The cold air rushed into northeast Nebraska during the morning of May 1st, causing rain to change to snow north of Norfolk before the morning commute. Otherwise the rain changed to sleet or snow late on May 1st and continued into the early morning hours of May 2nd. Snow and sleet intensities were enhanced by scattered thunderstorms that moved across the area. Snowfall totals of 1 to 3 inches fell over most of the region with a swath of 3 to 5 inches reported from near Lincoln and Wahoo northeast through Omaha and Blair. The snow and sleet created slushy and rutted roads and winds gusting over 20 mph combined with poor visibilities in moderate snow making for a period of difficult driving conditions which caused some vehicles to slide into ditches.

CEDAR COUNTY --- 0.9 NW FORDYCE [42.71, -97.36]

05/08/13 17:40 CST	0	Hail (0.75 in)
05/08/13 17:40 CST	0	Source: Emergency Manager

CEDAR COUNTY --- 2.6 NW FORDYCE [42.73, -97.38]

05/08/13 17:53 CST	0	Hail (0.75 in)
05/08/13 17:53 CST	0	Source: Law Enforcement

The hail was reported near the Jct of Highways 12 and 81.

JEFFERSON COUNTY --- 5.6 SE THOMPSON [40.01, -97.18]

05/08/13 20:30 CST	0	Hail (1.25 in)
05/08/13 20:30 CST	0	Source: Public

Hail up to half-dollar size fell south of Fairbury. Some of the hail was still on the ground that next morning.

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JEFFERSON COUNTY --- 1.7 ESE FAIRBURY ARPT [40.17, -97.14]				
	05/08/13 20:56 CST		0	Hail (0.75 in)
	05/08/13 20:56 CST		0	Source: Emergency Manager
JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]				
	05/08/13 21:13 CST		0	Hail (0.75 in)
	05/08/13 21:13 CST		0	Source: Emergency Manager
<p>Strong to severe thunderstorms that developed near a warm front in Kansas during the evening of May 8th tracked into southeast Nebraska near Fairbury. One storm produced hail up to around half-dollar size. A little earlier in the evening isolated thunderstorms developed south of a weak upper low that was tracking across southeast South Dakota. One of these storms produced hail around penny-size in Cedar county.</p>				
RICHARDSON COUNTY --- 2.8 S FALLS CITY ARPT [40.03, -95.58]				
	05/15/13 19:00 CST		0	Hail (0.75 in)
	05/15/13 19:00 CST		0	Source: Public
RICHARDSON COUNTY --- 1.1 W FALLS CITY [40.07, -95.62]				
	05/15/13 19:30 CST		0	Hail (0.75 in)
	05/15/13 19:30 CST		0	Source: Emergency Manager
<p>Reported on the west side of Falls City.</p> <p>Isolated thunderstorms developed along and stalled front in extreme southeast Nebraska during the late afternoon of May 15th. The storms produced a few reports of penny-size hail.</p>				
WAYNE COUNTY --- 2.1 SSE CARROLL [42.25, -97.17]				
	05/16/13 13:48 CST		0	Hail (0.75 in)
	05/16/13 13:53 CST		0	Source: Trained Spotter
<p>Hail up to around dime-size fell for about 5 minutes.</p>				
WAYNE COUNTY --- 2.1 N WINSIDE [42.21, -97.17]				
	05/16/13 13:53 CST		0	Hail (1.00 in)
	05/16/13 13:53 CST		0	Source: Trained Spotter
<p>Hail up to quarter-size was reported by a spotter in the area.</p> <p>An upper level disturbance that tracked across Nebraska during the late morning and early afternoon of May 15th brought an area of thunderstorms that moved from western through northeast Nebraska. An isolated storm produced large hail in northeast Nebraska.</p>				
PLATTE COUNTY --- 0.5 E COLUMBUS [41.43, -97.36]				
	05/18/13 21:31 CST		0	Thunderstorm Wind (EG 50 kt)
	05/18/13 21:31 CST		0	Source: Emergency Manager
<p>Thunderstorm wind gusts caused spotty tree damage in Columbus including a large hackberry tree which was downed in the town square which damaged a statue and ceremonial cannon. Some power outages were also noted in town.</p>				
JEFFERSON COUNTY --- 0.9 SW FAIRBURY [40.14, -97.18]				
	05/18/13 22:31 CST		0	Hail (1.00 in)
	05/18/13 22:31 CST		0	Source: Emergency Manager
JEFFERSON COUNTY --- 0.7 N JANSEN [40.19, -97.08]				
	05/18/13 22:33 CST		0	Hail (1.00 in)
	05/18/13 22:33 CST		0	Source: Emergency Manager
GAGE COUNTY --- 5.5 WSW HOLMESVILLE [40.18, -96.75]				
	05/18/13 22:40 CST		0	Thunderstorm Wind (EG 52 kt)
	05/18/13 22:40 CST		0	Source: Law Enforcement
<p>Thunderstorm wind gusts estimated at around 60 mph took the roof off of a shed along Highway 77 south of Beatrice.</p>				

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SALINE COUNTY --- SWANTON [40.38, -97.08]				
	05/18/13 22:44 CST		0	Thunderstorm Wind (EG 60 kt)
	05/18/13 22:44 CST		0	Source: Fire Department/Rescue
Thunderstorm wind gusts estimated at 60 to 70 mph downed several trees and caused other tree damage in Swanton. Some of the felled trees caused vehicle and house damage.				
RICHARDSON COUNTY --- RULO [40.05, -95.43]				
	05/18/13 23:15 CST		0	Thunderstorm Wind (EG 50 kt)
	05/18/13 23:15 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at close to 60 mph caused some tree damage in the Rulo area. A swing set also sustained significant damage.				
Moderately unstable conditions developed over eastern Nebraska during the afternoon and evening of May 18th as temperatures warmed into the 80s and dew point temperatures reached the mid to upper 60s. As an upper level trough approached from the Rockies, thunderstorms developed in western Nebraska and western Kansas. These storms moved east across eastern Nebraska and western Iowa and produced isolated areas of wind damage.				
GAGE COUNTY --- LIBERTY [40.08, -96.48]				
	05/19/13 13:10 CST		0	Hail (1.00 in)
	05/19/13 13:10 CST		0	Source: Trained Spotter
The hail was mostly nickel-size but a few reached quarter-size.				
CASS COUNTY --- 0.9 SE PLATTSMOUTH [41.01, -95.89]				
	05/19/13 14:33 CST		0	Hail (1.25 in)
	05/19/13 14:33 CST		0	Source: Law Enforcement
The hail was accompanied by thunderstorm winds which caused tree damage in town.				
CASS COUNTY --- 0.9 SE PLATTSMOUTH [41.01, -95.89]				
	05/19/13 14:35 CST		0	Thunderstorm Wind (EG 61 kt)
	05/19/13 14:35 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at 65 to 70 mph downed trees in the Plattsmouth area, some of which caused vehicle and house damage. The winds were accompanied by hail that reached half dollar-size.				
RICHARDSON COUNTY --- 0.5 W HUMBOLDT [40.17, -95.94]				
	05/19/13 15:15 CST		0	Hail (1.00 in)
	05/19/13 15:15 CST		0	Source: Law Enforcement
The hail fell along with thunderstorm wind gusts estimated at 60 mph.				
RICHARDSON COUNTY --- 0.5 W HUMBOLDT [40.17, -95.94]				
	05/19/13 15:15 CST		0	Thunderstorm Wind (EG 52 kt)
	05/19/13 15:15 CST		0	Source: Law Enforcement
Thunderstorm winds estimated at around 60 mph were accompanied by hail around quarter-size.				
NEMAHA COUNTY --- 0.5 W AUBURN [40.40, -95.84]				
	05/19/13 15:30 CST		0	Thunderstorm Wind (MG 70 kt)
	05/19/13 15:30 CST		0	Source: Public
A home weather station measured a thunderstorm wind gust of 80 mph. This same storm caused damage around the Nemaha area.				
NEMAHA COUNTY --- 0.9 NW NEMAHA [40.34, -95.68]				
	05/19/13 15:35 CST		0	Thunderstorm Wind (EG 70 kt)
	05/19/13 15:35 CST		0	Source: COOP Observer
Thunderstorm wind gusts estimated at 70 to 80 mph destroyed one grain bin and partially flattened two others near Nemaha. Some other outbuilding and tree damage was noted.				

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NEMAHA COUNTY --- 1.3 WNW NEMAHA [40.34, -95.69], 1.3 E NEMAHA [40.33, -95.65]				
	05/19/13 15:36 CST		0	Hail (2.00 in)
	05/19/13 15:39 CST		0	Source: Trained Spotter
Hail up to 2 inches in diameter fell in the Auburn area. The hail was accompanied by wind gusts that were measured at 80 mph by home weather equipment.				
RICHARDSON COUNTY --- 0.5 W HUMBOLDT [40.17, -95.94]				
	05/19/13 16:26 CST		0	Hail (0.88 in)
	05/19/13 16:26 CST		0	Source: Trained Spotter
PLATTE COUNTY --- 0.9 NE PLATTE CENTER [41.54, -97.49]				
	05/19/13 17:55 CST		0	Hail (1.00 in)
	05/19/13 17:55 CST		0	Source: Emergency Manager
BURT COUNTY --- 5.5 S CRAIG [41.70, -96.36]				
	05/19/13 19:58 CST		0	Thunderstorm Wind (MG 56 kt)
	05/19/13 19:58 CST		0	Source: Trained Spotter
Home weather equipment measured a thunderstorm gust of 64 mph from a line of storms that bowed out through the Craig area before weakening.				
As low pressure aloft deepened from western Nebraska into South Dakota, thunderstorms developed across central and eastern Nebraska during the early to mid afternoon hours. Temperatures climbed into the 70s and 80s and dew point temperatures in the 60s created moderately unstable conditions across the region. Several lines of severe thunderstorms moved across the area producing some wind damage along with several reports of large hail.				
KNOX COUNTY --- 6.3 ENE VENUS [42.47, -98.19]				
	05/26/13 20:35 CST		0	Hail (1.00 in)
	05/26/13 20:35 CST		0	Source: Public
ANTELOPE COUNTY --- 0.5 W CLEARWATER [42.17, -98.19]				
	05/26/13 21:57 CST		0	Hail (0.75 in)
	05/26/13 21:57 CST		0	Source: Law Enforcement
MADISON COUNTY --- 0.7 S TILDEN [42.04, -97.83]				
	05/26/13 22:30 CST		0	Thunderstorm Wind (EG 50 kt)
	05/26/13 22:30 CST		0	Source: Law Enforcement
Tree branches were blown down in the city of Tilden from the strong winds.				
MADISON COUNTY --- NORFOLK [42.03, -97.42]				
	05/26/13 23:12 CST		0	Thunderstorm Wind (EG 50 kt)
	05/26/13 23:12 CST		0	Source: Law Enforcement
Winds near 60 mph resulted in a highway sign being blown down in the Norfolk area.				
STANTON COUNTY --- 0.5 E STANTON [41.95, -97.22]				
	05/26/13 23:39 CST		0	Thunderstorm Wind (MG 50 kt)
	05/26/13 23:39 CST		0	Source: Emergency Manager
Trees branches of 6 to 8 inches were reported downed by the strong winds in the city of Stanton. There were also reports of downed power lines.				
DODGE COUNTY --- 0.9 SE FREMONT [41.44, -96.49]				
	05/27/13 00:37 CST		0	Thunderstorm Wind (MG 67 kt)
	05/27/13 00:40 CST		0	Source: AWOS
A measured gust of 77 mph was recorded at the Fremont Airport. As these winds moved through the city tree and power line damage was scattered throughout the city.				
DOUGLAS COUNTY --- 0.5 E DUNDEE [41.28, -96.01], 1.4 SE NORTH OMAHA [41.32, -95.95]				

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	05/27/13 01:25 CST		0	Thunderstorm Wind (MG 58 kt)
	05/27/13 01:27 CST		0	Source: Emergency Manager
Scattered 3 inch tree limbs were reported downed by the strong winds near the 61st and Blondo area of central Omaha. A measured wind gust to 67 mph occurred in the Miller Park area resulting in tree and power line damage.				
SALINE COUNTY --- 0.5 W CRETE [40.63, -96.96]				
	05/27/13 02:39 CST		0	Hail (0.75 in)
	05/27/13 02:39 CST		0	Source: Trained Spotter
NEMAH COUNTY --- 0.9 SW AUBURN [40.39, -95.84]				
	05/27/13 03:26 CST		0	Hail (0.75 in)
	05/27/13 03:26 CST		0	Source: Trained Spotter
<p>This was the first event of an unsettled weather pattern that set up over the central Plains for the last several days in May. Warm moist air was returning to eastern Nebraska as a warm front moved north into the area. Temperatures climbed into the 80s and dew points increased into the 60s by late afternoon over central Nebraska. This led to increasing instability, and eventually scattered thunderstorms by early evening. Thunderstorms initially developed over far northeast Nebraska during the evening hours, but as more thunderstorms moved into northeast Nebraska late in the evening, a forward propagating complex developed and moved southeast across eastern Nebraska eventually exiting into northeast Kansas and southwest Iowa. Initially isolated large hail fell, but as the line of thunderstorms developed, sporadic wind damage was produced over parts of northeast and east central Nebraska.</p>				
SALINE COUNTY --- 4.2 S TOBIAS [40.36, -97.34]				
	05/27/13 19:22 CST		0	Thunderstorm Wind (EG 61 kt)
	05/27/13 19:22 CST		0	Source: Emergency Manager
Winds estimated to 70 mph downed several power poles.				
JEFFERSON COUNTY --- 1.4 N SHEA [40.14, -97.02], 3.2 S HARBINE [40.15, -96.96]				
	05/27/13 19:51 CST		0	Tornado (EF0, L: 3.28 mi , W: 100 yd)
	05/27/13 19:56 CST		0	Source: NWS Storm Survey
A tornado developed near 6 miles east of Fairbury and traveled just over 3 miles in an east northeast direction ending just over 2 miles south southeast of Harbine. The tornado damage was generally minor including overturned center pivot irrigation systems, tree damage, and farm outbuildings.				
JEFFERSON COUNTY --- 3.1 ESE HARBINE [40.18, -96.92], 1.6 S HARBINE [40.18, -96.97]				
	05/27/13 20:02 CST		0	Tornado (EF2, L: 5.93 mi , W: 600 yd)
	05/27/13 20:06 CST		0	Source: NWS Storm Survey
A NWS storm survey indicated that a tornado developed approximately 2 miles south of Harbine. The tornado traveled in an east northeast direction impacting several farmsteads in Jefferson County. There was minor damage to 4 houses, and 5 out buildings were damaged beyond repair. Other damage included over-turned center pivots and tree damage. Approximately 2 miles east southeast of Harbine the tornado produced damage consistent with a weak EF2 tornado on the Enhanced Fujita Scale. Here a large recently well-built metal outbuildings were destroyed, minor damage was done to a home, and 2X4 boards were driven into the ground.				
GAGE COUNTY --- 4.1 SSW BEATRICE [40.22, -96.76], 2.8 SSW BEATRICE [40.23, -96.75]				
	05/27/13 20:16 CST		0	Tornado (EF0, L: 1.36 mi , W: 100 yd)
	05/27/13 20:20 CST		0	Source: NWS Storm Survey
A NWS storm survey revealed a weak tornado developed about 2 miles southwest of Beatrice and traveled northeast for just over a mile before dissipating. The tornado was weak producing damage consistent with EF0 consisting of broken hardwood tree branches and minor damage to outbuildings.				
GAGE COUNTY --- 1.1 W BEATRICE [40.27, -96.75]				
	05/27/13 20:18 CST		0	Thunderstorm Wind (EG 52 kt)
	05/27/13 20:18 CST		0	Source: Public
The public reported winds gusts to near 60 mph in the city of Beatrice. This resulted in downed tree branches in the city of Beatrice.				
JEFFERSON COUNTY --- 0.9 W FAIRBURY [40.15, -97.19], 0.2 SSE FAIRBURY [40.15, -97.17], 1.4 SSE FAIRBURY [40.13, -97.16], 1.6 SW FAIRBURY [40.13, -97.19], 1.3 WSW FAIRBURY [40.14, -97.19]				
	05/27/13 20:30 CST		0	Flash Flood (due to Heavy Rain)
	05/27/13 21:43 CST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Repeated heavy rainfall from thunderstorms produced 2 to 3 inches of rainfall in the Fairbury area leading to flash flooding in the city. Several intersections were flooded in town.				

GAGE COUNTY --- 1.2 NW BEATRICE [40.28, -96.75], 0.3 NE BEATRICE [40.27, -96.73], 0.8 SE BEATRICE [40.26, -96.72], 1.2 SW BEATRICE [40.26, -96.75], 1.3 W BEATRICE [40.27, -96.76]				
	05/27/13 21:41 CST		0	Flash Flood (due to Heavy Rain)
	05/27/13 22:41 CST		0	Source: Law Enforcement

Heavy thunderstorm rains of 2 to 3 inches fell across the city of Beatrice. This led to several intersections in the city to become flooded.

GAGE COUNTY --- 0.9 NNW CORTLAND [40.51, -96.71], 0.7 N CORTLAND [40.51, -96.70], 0.2 NNW CORTLAND [40.50, -96.70], 0.5 W CORTLAND [40.50, -96.71], 0.8 NW CORTLAND [40.51, -96.71]				
	05/27/13 21:43 CST		0	Flash Flood (due to Heavy Rain)
	05/27/13 22:43 CST		0	Source: Law Enforcement

Heavy thunderstorm rains of 2 to 3 inches fell across the city of Cortland in a short time leading to flash flooding. Water covered highway 77 in Cortland.

RICHARDSON COUNTY --- 0.7 N SHUBERT [40.24, -95.68]				
	05/27/13 22:00 CST		0	Thunderstorm Wind (EG 50 kt)
	05/27/13 22:00 CST		0	Source: Emergency Manager

Power lines were reported downed by strong thunderstorm winds.

RICHARDSON COUNTY --- FALLS CITY [40.07, -95.60]				
	05/27/13 22:03 CST		0	Thunderstorm Wind (MG 50 kt)
	05/27/13 22:03 CST		0	Source: ASOS

A wind gust to 58 mph was measured by the Falls City ASOS equipment.

Thunderstorms developed along a stationary boundary near the Kansas and Nebraska border on the afternoon of May 27th. Due to high amounts of instability and shear in the atmosphere these thunderstorms quickly became severe. The thunderstorms moved east over southern Nebraska, moving into southeast Nebraska by early evening. Although other isolated severe weather was reported, one particular storm moving through Jefferson and Gage Counties produced the majority of the severe weather. The storm complex exited southeast Nebraska prior to midnight producing severe weather around the Falls City Nebraska area.

ANTELOPE COUNTY --- 113.7 SSE TILDEN [40.53, -97.01], 113.5 SSE TILDEN [40.52, -97.02], 116.8 SSE TILDEN [40.48, -97.01], 119.6 SSE TILDEN [40.44, -96.99], 121.6 SSE TILDEN [40.41, -96.99], 121.6 SSE TILDEN [40.41, -96.97]				
	05/28/13 05:35 CST		0	Flood (due to Heavy Rain)
	05/31/13 09:55 CST		0	Source: River/Stream Gage

Due to persistent heavy rainfall across the Turkey Creek basin, the river rose above flood state on the morning of May 28th. There were two crests associated with the heavy rain. The first coming on the morning of the 28th at 12.57 feet, and the second higher crest on May 30th at 16.58 feet. The second crest resulted in significant flooding of row crops in the flood plain.

RICHARDSON COUNTY --- 6.6 ESE RULO [40.01, -95.32], 1.7 SSE RULO [40.03, -95.42], 1.4 N RULO [40.07, -95.43], 2.8 NNE BARADA [40.26, -95.56], 4.9 NE BARADA [40.27, -95.51], 5.9 NNE RULO [40.13, -95.38]				
	05/28/13 10:36 CST		0	Flood (due to Heavy Rain)
	05/31/13 23:59 CST		0	Source: River/Stream Gage

The Missouri River at Rulo went above flood stage late in the morning of May 28th, crested around 23.5 feet late in the evening of the 30th and eventually fell below flood stage early in the morning of June 2nd. Although the river mostly flooded agricultural lowlands, several cabins and possibly a business in the area either experienced minor flooding or were threatened by the flooding.

NEMAHA COUNTY --- 7.6 SE NEMAHA [40.26, -95.55], 2.8 SSE NEMAHA [40.29, -95.66], 3.2 NNW PERU [40.52, -95.75], 4.1 NNE PERU [40.54, -95.70], 6.0 E NEMAHA [40.31, -95.56], 7.3 ESE NEMAHA [40.29, -95.54]				
	05/29/13 14:56 CST		0	Flood (due to Heavy Rain)
	05/31/13 23:59 CST		0	Source: River/Stream Gage

In response to repeated days of heavy rainfall from thunderstorms across eastern Nebraska and western Iowa, the Missouri River went into flood. The Missouri River at Brownville crested on May 31st at a stage of 35.79 feet. This led to widespread lowland flooding of agricultural land. This flooding persisted into early June.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SALINE COUNTY --- 6.4 NNW CRETE [40.71, -97.01], 1.8 WSW CRETE [40.62, -96.98], 0.5 NNW WILBER MUNI ARPT [40.48, -96.98], 1.0 E WILBER [40.48, -96.93], 0.4 E CRETE [40.63, -96.94], 5.5 N CRETE [40.71, -96.97]				
	05/29/13 20:38 CST		0	Flood (due to Heavy Rain)
	05/30/13 20:00 CST		0	Source: River/Stream Gage
Heavy rainfall of 3 to 6 inches within the Big Blue River basin over several days pushed the river into flood. The Big Blue River crested on the morning of the 30th with a river stage of 22.68 feet at the city of Crete. This created significant lowland flooding along the river and led to the closure of several rural roads.				
RICHARDSON COUNTY --- 1.3 N PRESTON [40.05, -95.52], 1.1 ENE PRESTON [40.04, -95.50], 2.5 WSW PRESTON [40.02, -95.57], 3.0 SW FALLS CITY [40.04, -95.64], 1.8 SSE SALEM [40.06, -95.70], 1.5 SE SALEM [40.06, -95.70]				
	05/30/13 03:48 CST		0	Flood (due to Heavy Rain)
	05/31/13 18:20 CST		0	Source: River/Stream Gage
Persistent heavy rainfall across southeast Nebraska lead to a saturated ground and flooding along the Big Nemaha River near Falls City, NE. Lowland flooding was reported along the river from near Falls City to near Rulo. The river crested at 29.10 feet on the morning of the 30th of May, just over 4 feet above flood stage.				
OTOE COUNTY --- 7.9 N NEBRASKA CITY ARPT [40.78, -95.86], 5.1 NNW NEBRASKA CITY ARPT [40.74, -95.90], 2.1 ESE NEBRASKA CITY [40.64, -95.81], 6.3 ESE PAUL [40.52, -95.78], 9.6 ESE PAUL [40.53, -95.71], 4.2 E NEBRASKA CITY [40.66, -95.77], 8.0 NNE NEBRASKA CITY ARPT [40.78, -95.82]				
	05/30/13 07:45 CST		0	Flood (due to Heavy Rain)
	05/31/13 09:06 CST		0	Source: River/Stream Gage
Due to repeated heavy thunderstorm rains across eastern Nebraska and western Iowa the Missouri River went into flood. Only minor flooding was observed in Otoe County with the river cresting twice at Nebraska City, first on the morning of the 30th at 18 feet, and then fell briefly below flood stage cresting again on the 31st at 18.62 ft. This created areas of lowlands flooding along the river.				
GAGE COUNTY --- 6.6 SW CLATONIA [40.41, -96.92], 2.9 NW HOAG [40.35, -96.87], 2.4 WSW BEATRICE [40.25, -96.77], 3.5 WNW HOLMESVILLE [40.22, -96.71], 2.5 NNW HOLMESVILLE [40.23, -96.66], 5.6 SW CLATONIA [40.41, -96.90]				
	05/30/13 23:30 CST		0	Flood (due to Heavy Rain)
	05/31/13 23:59 CST		0	Source: River/Stream Gage
Repeated heavy rainfall over the Big Blue River basin lead to the river going into flood across parts of Gage County. This was most prevalent from Beatrice and to the north. The river crested at Beatrice on the morning of June 1st at 17.98 feet. This created lowland flooding, but few impacts to the city of Beatrice.				
Several episodes of heavy-rain producing thunderstorms caused flooding along the Missouri River in southeast Nebraska, as well as the the Big Blue River, Turkey Creek, and the Big Nemaha River.				
NEMAHA COUNTY --- 2.6 NW NEMAHA [40.36, -95.70]				
	05/28/13 15:35 CST		0	Hail (1.75 in)
	05/28/13 15:35 CST		0	Source: Public
Hail did not completely cover the ground. The area also received one inch of rain.				
NEMAHA COUNTY --- 2.6 SW BROWNVILLE [40.37, -95.68]				
	05/28/13 15:45 CST		0	Hail (1.50 in)
	05/28/13 15:45 CST		0	Source: Trained Spotter
NEMAHA COUNTY --- 0.5 W BROWNVILLE [40.40, -95.66]				
	05/28/13 16:00 CST		0	Hail (2.75 in)
	05/28/13 16:00 CST		0	Source: Public
Golfball to baseball size hail fell.				
JEFFERSON COUNTY --- 3.7 E THOMPSON [40.07, -97.18]				
	05/28/13 18:35 CST		0	Hail (0.75 in)
	05/28/13 18:35 CST		0	Source: COOP Observer
Hail lasted for 20 minutes.				
JEFFERSON COUNTY --- 1.6 E PLYMOUTH [40.30, -96.95]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/28/13 18:54 CST		0	Thunderstorm Wind (MG 50 kt)
	05/28/13 18:54 CST		0	Source: Trained Spotter
JEFFERSON COUNTY --- 0.5 W PLYMOUTH [40.30, -96.99]				
	05/28/13 19:02 CST		0	Hail (1.00 in)
	05/28/13 19:02 CST		0	Source: Emergency Manager
SALINE COUNTY --- DE WITT [40.40, -96.92]				
	05/28/13 19:12 CST		0	Hail (0.88 in)
	05/28/13 19:12 CST		0	Source: Emergency Manager
LANCASTER COUNTY --- 2.1 NNE HOLLAM [40.56, -96.77]				
	05/28/13 19:43 CST		0	Hail (1.00 in)
	05/28/13 19:43 CST		0	Source: Public
Scattered severe thunderstorms developed during the afternoon of the 28th along a stationary front extending across southeastern Nebraska and into southwest Iowa where strong instability had developed.				
JEFFERSON COUNTY --- 0.5 W PLYMOUTH [40.30, -96.99]				
	05/29/13 07:21 CST		0	Hail (1.75 in)
	05/29/13 07:21 CST		0	Source: Trained Spotter
BUTLER COUNTY --- 2.8 N RISING CITY [41.24, -97.30]				
	05/29/13 16:35 CST		0	Hail (0.88 in)
	05/29/13 16:35 CST		0	Source: Emergency Manager
BUTLER COUNTY --- 1.7 SW SURPRISE [41.08, -97.34]				
	05/29/13 16:50 CST		0	Thunderstorm Wind (EG 60 kt)
	05/29/13 16:50 CST		0	Source: Trained Spotter
Center pivot was flipped over and a grain bin was damaged.				
BUTLER COUNTY --- 2.9 NE RISING CITY [41.23, -97.26], 3.5 NE RISING CITY [41.24, -97.26]				
	05/29/13 17:00 CST		0	Tornado (EF0, L: 0.64 mi , W: 25 yd)
	05/29/13 17:05 CST		0	Source: Emergency Manager
This was a quick spin up tornado amongst a cluster of thunderstorms. No damage was reported with this brief tornado.				
SAUNDERS COUNTY --- 1.3 ESE WAHOO [41.21, -96.60]				
	05/29/13 17:45 CST		0	Thunderstorm Wind (EG 61 kt)
	05/29/13 17:45 CST		0	Source: Fire Department/Rescue
Roof damaged on a trailer house along county road K near the cemetery.				
KNOX COUNTY --- 5.3 WSW VERDEL [42.78, -98.29]				
	05/29/13 17:55 CST		0	Hail (1.00 in)
	05/29/13 17:55 CST		0	Source: Public
Wind gusts up to 60 mph were also reported.				
KNOX COUNTY --- 5.3 WSW VERDEL [42.79, -98.30]				
	05/29/13 17:55 CST		0	Thunderstorm Wind (EG 52 kt)
	05/29/13 17:55 CST		0	Source: Public
Thunderstorm wind gusts estimated up to 60 mph were accompanied by quarter-size hail.				
DODGE COUNTY --- 0.9 SE FREMONT [41.44, -96.49]				
	05/29/13 18:06 CST		0	Thunderstorm Wind (MG 52 kt)
	05/29/13 18:06 CST		0	Source: NWS Employee

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LANCASTER COUNTY --- 1.7 ENE RAYMOND [40.96, -96.74], 1.9 ENE RAYMOND [40.96, -96.74], 1.9 ENE RAYMOND [40.96, -96.74], 1.7 ENE RAYMOND [40.96, -96.74]				
	05/29/13 18:21 CST		0	Flash Flood (due to Heavy Rain)
	05/29/13 18:51 CST		0	Source: Amateur Radio
Water briefly flooded the road near 12th and Raymond Road.				
MADISON COUNTY --- NORFOLK [42.03, -97.42]				
	05/29/13 18:21 CST		0	Thunderstorm Wind (EG 52 kt)
	05/29/13 18:21 CST		0	Source: Public
Thunderstorm wind gusts were estimated to have reached 60 mph in the Norfolk area.				
LANCASTER COUNTY --- 2.2 WSW ARROW ARPT [40.86, -96.69], 1.4 WNW ARROW ARPT [40.88, -96.67], 1.1 W ARROW ARPT [40.87, -96.67], 1.6 WSW ARROW ARPT [40.86, -96.68]				
	05/29/13 18:30 CST		0	Flash Flood (due to Heavy Rain)
	05/29/13 19:00 CST		0	Source: Public
Flash flooding briefly covered sidewalks over parts of north Lincoln.				
SAUNDERS COUNTY --- 0.6 NE CERESCO [41.06, -96.64], 0.7 NE CERESCO [41.06, -96.64], 0.6 NE CERESCO [41.06, -96.64], 0.6 NE CERESCO [41.06, -96.64]				
	05/29/13 19:00 CST		0	Flash Flood (due to Heavy Rain)
	05/29/13 20:00 CST		0	Source: Public
Heavy rain flooded the city park along Highway 77.				
A cluster of thunderstorms developed over south central Nebraska and spread east into an area of strong instability and weak inhibition over southeast Nebraska. As a low level jet increased, so did the areal coverage of thunderstorms. This cluster of storms produced a brief tornado spin-up, large hail, strong winds and heavy rain. Some flash flooding was also reported.				
LANCASTER COUNTY --- 0.9 NW DENTON [40.74, -96.84]				
	05/30/13 17:20 CST		0	Hail (1.00 in)
	05/30/13 17:20 CST		0	Source: Public
LANCASTER COUNTY --- 1.7 WSW LINCOLN [40.79, -96.70], 0.9 E WEST LINCOLN [40.83, -96.70]				
	05/30/13 17:38 CST		0	Hail (1.50 in)
	05/30/13 17:43 CST		0	Source: Trained Spotter
Hail up to 1.5 inches in diameter fell across parts of Lincoln from the first supercell thunderstorm that tracked across the city this evening. Among areas that received the large hail from this first storm included the North Bottoms neighborhood near 9th and Charleston, near Coddington and South Streets and at least one location in southwest Lincoln.				
SAUNDERS COUNTY --- 0.7 N MEAD [41.24, -96.50]				
	05/30/13 17:51 CST		0	Hail (1.00 in)
	05/30/13 17:51 CST		0	Source: Trained Spotter
CASS COUNTY --- 0.9 SW GREENWOOD [40.96, -96.44]				
	05/30/13 18:10 CST		0	Hail (1.00 in)
	05/30/13 18:10 CST		0	Source: Trained Spotter
LANCASTER COUNTY --- 1.5 S LAKEVIEW [40.80, -96.72], 1.6 WNW ARROW ARPT [40.88, -96.68]				
	05/30/13 18:25 CST		0	Hail (1.75 in)
	05/30/13 18:50 CST		0	Source: Trained Spotter
Hail up to golf ball-size fell across parts of the Lincoln area from the second supercell thunderstorm that tracked over the city this evening. Many of the larger hail reports from this storm came from the western and northern sections, including the Highlands area, 141st and Davey, 27th and I-80, 14th and I-80, 56th and Highway 2 and Coddington and West A Streets.				
DOUGLAS COUNTY --- 0.9 NE WATERLOO [41.29, -96.29]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/30/13 18:27 CST		0	Hail (0.88 in)
	05/30/13 18:27 CST		0	Source: Law Enforcement
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LANCASTER COUNTY --- FIRTH [40.53, -96.60]				
	05/30/13 18:27 CST		0	Thunderstorm Wind (EG 50 kt)
	05/30/13 18:27 CST		0	Source: Emergency Manager
Shingle and tree damage was reported associated with the wind gust near Firth.				
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GAGE COUNTY --- 0.9 SW ADAMS [40.46, -96.51]				
	05/30/13 18:30 CST		0	Thunderstorm Wind (EG 52 kt)
	05/30/13 18:30 CST		0	Source: Emergency Manager
The estimated gust tore shingles off homes in the city of Adams.				
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LANCASTER COUNTY --- 1.0 N WAVERLY [40.93, -96.52], 4.0 N WAVERLY [40.98, -96.52]				
	05/30/13 18:48 CST		0	Hail (1.50 in)
	05/30/13 18:50 CST		0	Source: Trained Spotter
Hail up to 1.5 inches in diameter fell a few miles north of Waverly.				
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CASS COUNTY --- 3.0 NNW MANLEY [40.96, -96.19], 1.6 S LOUISVILLE [40.98, -96.15]				
	05/30/13 18:55 CST		0	Hail (2.00 in)
	05/30/13 18:57 CST		0	Source: Trained Spotter
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CASS COUNTY --- 0.9 SE PLATTSMOUTH [41.01, -95.89]				
	05/30/13 19:06 CST		0	Hail (0.88 in)
	05/30/13 19:07 CST		0	Source: Trained Spotter
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CASS COUNTY --- 1.7 S CEDAR CREEK [41.01, -96.10]				
	05/30/13 19:10 CST		0	Hail (1.00 in)
	05/30/13 19:10 CST		0	Source: Trained Spotter
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SARPY COUNTY --- 2.7 WSW CHALCO [41.17, -96.20]				
	05/30/13 19:25 CST		0	Hail (0.75 in)
	05/30/13 19:25 CST		0	Source: NWS Employee
Most of the hail was pea size, but a few stones near dime size also fell.				
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CASS COUNTY --- 1.5 NNE PLATTSMOUTH [41.04, -95.89]				
	05/30/13 19:35 CST		0	Thunderstorm Wind (EG 52 kt)
	05/30/13 19:35 CST		0	Source: Public
This estimated wind gust was reported at the Plattsouth Country Club.				
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WASHINGTON COUNTY --- 0.7 S FT CALHOUN [41.46, -96.03]				
	05/30/13 19:51 CST		0	Hail (1.00 in)
	05/30/13 19:51 CST		0	Source: Trained Spotter

This was the the final severe weather event in a series of occurrences that were associated with a seasonably deep upper level low pressure over the northern Plains. Instability increased during the afternoon along and ahead of a stationary front across eastern Nebraska from low pressure over the Dakotas. Isolated to scattered thunderstorms developed in the late afternoon and tracked across eastern Nebraska and into western Iowa during the evening hours. Although isolated reports of damaging winds were reported, most of the events were large hail, some of which was significant.